

$$\begin{aligned}
& (a_1 b_2 - a_1 a_2) S(f_i I_{i,k} g_{ip}^2 I_{ip,k} I_{ip,l} f_j I_{j,l}) \\
& (a_1 a_2 - e_1^2 e_2^2) S^2(f_i I_{i,j} g_k I_{k,j}) \\
& (a_2 b_1 - a_1 a_2) S(f_i^2 I_{i,j} I_{i,k} g_{ip} I_{ip,k} g_l I_{l,j}) \\
& ((b_1 - a_1) b_2 - a_2 b_1 + a_1 a_2) S(f_i^2 I_{i,j} I_{i,k} g_l^2 I_{l,j} I_{l,k}) \\
& .
\end{aligned}$$